Q:

Now let's examine similarities in trained word embeddings, instead of raw context counts. See the file Nyt_word2vec.university cat dog, which contains word embedding vectors pretrained by word2vec1 for three words: "dog", "cat", and \university". You can open the file in a text editor since it's quite small.

Please complete cossim dense(v1,v2) in distsim.py to compute and display the cosine similarities between each pair of these words. You may not use any functions from packages (e.g. scikit) that contain implementations of cosine calculation. You can test that your implementation is correct with testq4.py. We will also test this on Vocareum.

A: Result of testq4.py

Cosine similarity between cat and dog 0.827517295965
Cosine similarity between cat and university -0.205394745036
Cosine similarity between university and dog -0.190753135501
1: cat (0.827517295965)
2: university (-0.190753135501)